Preliminary Methodologies for Determining Fee Emissions for Consumer Products Manufacturers

for

Fiscal Year 2013-2014

- Fiscal Year (FY) 2013-2014 fees are determined using 2011 volatile organic compound (VOC) emissions.
- Air Resources Board (ARB) staff determined per-company 2011 VOC emissions using combined information from the following surveys:
 - 2001 Air Resources Board (ARB) Consumer and Commercial Products Survey (2001 CP Survey);
 - 2003 ARB Consumer and Commercial Products Survey (2003 CP Survey);
 - 2006 ARB Consumer and Commercial Products Survey (2006 CP Survey):
 - 2008 ARB Paint Thinner and Multi-purpose Solvent Survey (2008 PT and MPS Survey); and
 - 2010 ARB Aerosol Coatings and Aerosol Adhesives Product Survey (2010 AC and AA Survey).
- The survey data were used except for those companies that elected to submit more recent information. If a company submitted comprehensive product sales and formulation information for 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, or 2011 this information was used in combination with information from the surveys conducted after a company submittal. In cases where emissions information for a product category was available in more than one survey or comprehensive product sales and formulation submittal, only the most recent category emissions data set was used to avoid counting a product more than once.
- VOC emissions have been adjusted by California population growth. The table below lists approximate percent increases in population in California between the year of data submittal and 2011.

Sales Data Year	CA Population Percent Increase Between Sales Year and 2011*
2001	8.88
2002	7.56
2003	6.19
2004	5.11
2005	4.43
2006	3.67
2007	2.81
2008	1.94
2009	1.35
2010	0.70
2011	0

^{*}The California Department of Finance is the source for the population data.

For FY 2013-2014 fee emissions, one limit went into effect for 2011. When
products' VOC content is above this standard, they are adjusted to the VOC limit
for this category. This product category and it's VOC limit is identified below:

Category

VOC Limit (Percent by Weight)

Oven or Grill Cleaner non-aerosol

4

- Adjustments were made for a product category surveyed in one or more of the following surveys: 2001 CP Survey, 2003 CP Survey, 2006 CP Survey, 2008 MPS and PT Survey, and 2010 AC and AA Survey. The 2001, 2003 and 2006 CP Survey product categories are available at these links, http://www.arb.ca.gov/consprod/regact/2001surv/survey6.pdf. http://www.arb.ca.gov/consprod/regact/2003surv/s7.pdf and http://www.arb.ca.gov/consprod/regact/2006surv/s13.pdf, respectively. Information about 2008 MPS and PT Survey, and 2010 AC and AA Survey is available at these links, http://www.arb.ca.gov/consprod/regact/2010surv/2010surv.htm, respectively.
- Aerosol Coatings emissions were determined using sales and VOC ingredient information gathered in the 2010 AC and AA Survey. A direct calculation of VOC emissions using sale and VOC ingredients information was performed.
- The per-company emissions do not reflect survey market coverage adjustments.
 Adjustment factors are not applicable to individual companies.
- Some information on low vapor pressure (LVP)-VOCs was obtained in the surveys. However, LVP-VOCs are not currently included in the per-company emissions for consumer products. As LVP-VOC data collected through future consumer product surveys is improved, ARB staff will evaluate whether it is appropriate to include per-company emissions of LVP-VOCs that are likely to see an atmospheric fate.

BACKGROUND INFORMATION FOR PREVIOUS FISCAL YEARS:

- Previous years' methodologies for determining fee emissions for consumer products manufacturers are available at http://www.arb.ca.gov/consprod/regact/feewg/feewg.htm.
- FY 2003-2004, FY 2004-2005, FY 2005-2006, FY 2006-2007, FY 2007-2008, FY 2008-2009, FY 2009-2010, FY 2010-2011, FY 2011-2012, and FY 2012-2013 fees were determined using 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, and 2010 VOC emissions, respectively.
- 2001-2009 VOC emissions. ARB staff determined per-company 2001- 2009 VOC emissions using information gathered from the 2003 CP Survey, the 1997 ARB Consumer and Commercial Products Survey (1997 CP Survey) and the 1997 Aerosol Coatings Survey (1997 AC Survey), except where a company elected to submit more recent information. If a company submitted comprehensive product sales and formulation information for 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, or 2009, this information was used.
- 2010 VOC emissions. ARB staff determined per-company 2010 VOC emissions using information gathered from the following surveys:
 - 2001 Air Resources Board (ARB) Consumer and Commercial Products Survey (2001 CP Survey);
 - 2003 ARB Consumer and Commercial Products Survey (2003 CP Survey);
 - 2006 ARB Consumer and Commercial Products Survey (2006 CP Survey);
 - 2008 ARB Paint Thinner and Multi-purpose Solvent Survey (2008 PT and MPS Survey); and
 - 2010 ARB Aerosol Coatings and Aerosol Adhesives Product Survey (2010 AC and AA Survey).

The survey data were used to calculate 2010 emissions except for those companies that elected to submit more recent information. If a company submitted comprehensive product sales and formulation information for 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, or 2010, this information was used in combination with information from the surveys conducted after a company submittal. In cases where emissions information for a specific product category was available from more than one survey or a comprehensive product sales and formulation submittal, only the most recent data set was used.

For population growth adjustments made to 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, and 2010 VOC emissions please refer to previous years' methodologies.

Previous FY 2003-2004 fee emissions were determined using 2001 VOC emissions. Adjustments were made to the VOC content of products in categories with standards that took effect between 1997 and 2001. When products' VOC content are above these standards, they are adjusted to the VOC limit for their respective categories. These product categories and VOC limits are identified below:

Category VOC Limit (Percent by Weight) Carpet and Upholstery Cleaner: 7 aerosol non-aerosol (ready to use) 3 non-aerosol (dilutable) 0.1 Hair Spray 55 Insecticide: Crawling Bug Insecticide (all forms)* 20 Personal Fragrance Product: with 20 percent or less fragrance 75 with more than 20 percent fragrance 65 Spot Remover: aerosol 25 non-aerosol 8 3 Automotive Instant Detailer

^{*}Note: For a product regulated under the Federal Insecticide, Fungicide, and Rodenticide Act, the limit is effective one year after the date specified in the Table of Standards.

Previous FY 2004-2005 fee emissions were determined using 2002 VOC emissions. Adjustments were made for additional standards that took effect in 2002, where applicable. When products' VOC content are above these standards, they are adjusted to the VOC limit for their respective categories. These product categories and VOC limits are identified below:

Category	VOC Limit (Percent by Weight)
Aerosol Adhesive:	55
Mist Spray	65
Web Spray	55
Special Purpose Spray Adhesive:	
Mounting, Automotive Engine	
Compartment, and Flexible Vinyl	Adhesive 70
Polystyrene Foam and Automobi	le Headliner 65
Polyolefin and Laminate Repair/E	Edgebanding 60
Bug and Tar Remover	40
General Purpose Degreaser:	
aerosol	50
Non-selective Terrestrial Herbicide:	
non-aerosol*	3
Undercoating:	
aerosol	40

^{*}Note: For a product regulated under the Federal Insecticide, Fungicide, and Rodenticide Act, the limit is effective one year after the date specified in the Table of Standards. No adjustments were made to 2002 VOC emissions.

Previous FY 2005-2006 fee emissions were determined using 2003 VOC emissions. Adjustments were made for additional standards that took effect in 2003, where applicable. When products' VOC content are above these standards, they are adjusted to the VOC limit for their respective categories. These product categories and VOC limits are identified below:

<u>Category</u>	VOC Limit (Perce	ent by Weight)
Adhesive:		
Construction, Panel, and Floor Covering	15	
Automotive Brake Cleaner	45	
Automotive Windshield Washer Fluid:		
all other areas (all forms) **		
dilutable and pre-mixed	1	
Carburetor or Fuel-Injection Air Intake Cleaner	45	
Hair Mousse	6	
Multi-purpose Lubricant:		
(excluding solid or semisolid products)	50	
Non-selective Terrestrial Herbicide:		
non-aerosol*	3	
Penetrant	50	
Rubber and Vinyl Protectant:		
non-aerosol	3	
Sealants and Caulking Compound	4	
Tire Sealant and Inflator	20	

^{*}Note: For a product regulated under the Federal Insecticide, Fungicide, and Rodenticide Act, the limit is effective one year after the date specified in the Table of Standards. Adjustments were made to 2003 VOC emissions.

(Source: ARB, Regulation for Reducing VOC Emissions from Consumer Products; available at http://www.arb.ca.gov/consprod/regs/gencpregs.htm)

Previous FY 2006-2007 fee emissions were determined using 2004 VOC emissions. Adjustments may have been made for products with VOC content above their respective standards. Since there were no new standards effective in 2004, adjustments were made only to products for VOC standards that took effect in 2003, where applicable, as these were assumed to be in a 3-year sell through period.

^{**}Note: "All other areas" excludes "Type A Areas." "Type A Areas" consists of Del Norte, Shasta and Trinity Counties; and the Great Basin Valley, Lake Tahoe, Mountain Counties, and Northeast Plateau Air Basins.

Previous FY 2007-2008 fee emissions were determined using 2005 emissions. Adjustments have been made to VOC content of products in categories with standards that took effect in 2005, where applicable. When products' VOC content are above these standards, they are adjusted to the VOC limit for their respective categories. These product categories and VOC limits are identified below:

VOC Limit (Percent by Weight)

3

30

50

10

60

0

Category

Lawn and garden:

Metal Polish/Cleanser

Paint Remover or Stripper

Rubber and Vinyl Protectant:

Silicone-based Multi-purpose Lubricant: (excluding solid or semisolid products)

Nail Polish Remover

aerosol

Air Freshener: Double phase aerosol 25 Automotive Rubbing or Polishing Compound 17 Automotive Wax/Polish/Sealant/Glaze: all other forms 15 hard paste waxes 45 Engine Degreaser: aerosol 35 non-aerosol 5 Furniture Maintenance Product: aerosol 17 General Purpose Cleaner: non-aerosol 4 General Purpose Degreaser: non-aerosol 4 Glass Cleaner: non-aerosol 4 Hair Shine 55 Heavy-duty Hand Cleaner or Soap 8 Insecticide*: Flying bug: aerosol 25

(Source: ARB, Regulation for Reducing VOC Emissions from Consumer Products; available at http://www.arb.ca.gov/consprod/regs/gencpregs.htm)

non-aerosol lawn and garden insecticide

^{*}Note: For a product regulated under the Federal Insecticide, Fungicide, and Rodenticide Act, the limit is effective one year after the date specified in the Table of Standards. Adjustments were made to 2005 VOC emissions.

Previous FY 2008-2009 fee emissions were determined using 2006 emissions. Two limits went into effect in 2006 due to the one year extension of the effective date for products regulated under the Federal Insecticide, Fungicide, and Rodenticide Act. When products' VOC content are above the standards that came into effect in the fee base year, they are adjusted to the VOC limit for their respective categories. However, no adjustments have been made to VOC content for products in these categories because they were not surveyed in the 2003 CP Survey. Adjustments will be made to these product categories after the 2006 ARB Consumer and Commercial Products Survey (2006 CP Survey) submittals are received and evaluated. These product categories and VOC limits are identified below:

Category

VOC Limit (Percent by Weight)

Crawling Bug Insecticide*:

aerosol 15 Wasp and Hornet Insecticide 40

*Note: For a product regulated under the Federal Insecticide, Fungicide, and Rodenticide Act, the limit is effective one year after the date specified in the Table of Standards.

(Source: ARB, Regulation for Reducing VOC Emissions from Consumer Products; available at http://www.arb.ca.gov/consprod/regs/gencpregs.htm)

Previous FY 2009-2010 fee emissions were determined using 2007 VOC emissions. Adjustments have been made for additional standards that took effect in 2007, where applicable. When products' VOC content are above these standards, they are adjusted to the VOC limit for their respective categories. These product categories and VOC limits are identified below:

Category	VOC Limit (Percent by Weight)
Contact Adhesive- General Purpose	55
Contact Adhesive- Special Purpose	80
Floor or Wall Covering Adhesive Remover	5
Gasket or Thread Locking Adhesive Remover	50
General Purpose Adhesive Remover	20
Specialty Adhesive Remover	70
Anti-Static Product:	
non-aerosol	11
Electric Cleaner	45
Fabric Refresher:	
aerosol	15
non-aerosol	6
Footwear or Leather Care Product:	
aerosol	75
solid	55
all other forms	15
Graffiti Remover	50
aerosol	50
non-aerosol	30
Hair Styling Product:	•
aerosol and pump spray	6
all other forms	2
Shaving Gel:	7
aerosol	7 7
non-aerosol Toilet Urinal Care Product:	1
aerosol	10
non-aerosol	3
Wood Cleaner:	3
aerosol	17
non-aerosol	4
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Previous FY 2010-2011 fee emissions were determined using 2008 emissions.
Two limits went into effect in 2008. However, no adjustments have been made to
VOC content for products in these categories because they were not surveyed in
the 2003 CP Survey. These product categories and VOC limits are identified
below:

<u>Category</u> Electronic Cleaner 75

Nail Polish Remover 1

(Source: ARB, Regulation for Reducing VOC Emissions from Consumer Products; available at http://www.arb.ca.gov/consprod/regs/gencpregs.htm)

Previous FY 2011-2012 fee emissions were determined using 2009 emissions.
 Adjustments have been made for additional standards that took effect in 2009, where applicable. When products' VOC content are above these standards, they are adjusted to the VOC limit for their respective categories. These product categories and VOC limits are identified below:

Anti-static Product:	
aerosol	80
Automotive Windshield Washer Fluid:	
Type "A" areas	25
Bathroom and Tile Cleaner:	
non-aerosol	1
Brake Cleaner	20
Carburetor or Fuel-injection Air Intake Cleaner	20
Construction, Panel & Floor Covering Adhesive	7
Disinfectant:	
aerosol	70
non-aerosol	1
Furniture Maintenance Product:	
non-aerosol (except solid/paste forms)	3
General Purpose Cleaner:	
aerosol	8
General Purpose Degreaser:	
aerosol	20
Laundry Starch/Sizing/Fabric Finish Product	4.5
Oven Cleaner:	
non-aerosol (including pump spray and liquid)	1
Sanitizer:	
aerosol	70
non-aerosol	1

(Source: ARB, Regulation for Reducing VOC Emissions from Consumer Products; available at http://www.arb.ca.gov/consprod/regs/gencpregs.htm)

Previous FY 2012-2013 fee emissions were determined using 2010 emissions. Adjustments have been made for additional standards that went into effect for 2010, where applicable. When products' VOC content are above these standards, they are adjusted to the VOC limit for their respective categories. The product categories and VOC limits are identified below:

VOC Limit (Percent by Weight) Category Astringent/Toner: non-aerosol 35 Brake Cleaner 10 Carburetor or Fuel-injection Air Intake Cleaner 10 Carpet/Upholstery Cleaner: aerosol 5 non-aerosol (ready-to-use) 1 **Dusting Aid:** aerosol 17 non-aerosol 3 **Engine Degreaser:** aerosol 10 Fabric Protectant: non-aerosol 1 Floor Maintenance Product 1 Floor Polish or Wax: **Resilient Flooring Material** 1 Non-resilient Flooring Material 1 Wood Floor Wax 70 General Purpose Degreaser: aerosol 10 Motor Vehicle Wash: non-aerosol 0.2 Multi-purpose Solvent 30 Odor Remover/Eliminator: aerosol 25 non-aerosol 6 Paint Thinner 30 Pressurized Gas Duster 1 Sealant or Caulking Compound: Non-chemically Curing: non-aerosol 1.5 Shaving Gel 4* Temporary Hair Color: aerosol 55 Tire or Wheel Cleaner: aerosol 8 2 non-aerosol

Windshield Water Repellant

75

^{*}Effective date of the Shaving Gel VOC limit is December 31, 2009
(Source: ARB, Regulation for Reducing VOC Emissions from Consumer Products; available at http://www.arb.ca.gov/consprod/regs/gencpregs.htm)